Table 3 - Analytical Results of Little Elk Creek Contamination

Below is a list of volatile organic compounds found in Little Elk Creek during a February 1998 sampling event not long before construction began on the Creek containment system. The levels listed are some of the highest found during that sampling event. This sampling was conducted as part of removal action to address the Creek contamination. Other contaminants, such as semi-volatile organic compounds, pesticides and metals, were found in the overburden ground water during the Remedial Investigation and may have been in the Creek as well during this sampling event since the overburden ground water discharges to the Creek. Note that this sampling was conducted in the Creek; however, prior to the installation of the Creek liner, seeps of overburden ground water along the Creek bank at the Plant Area contained visible sheens of contamination. Without the continued operation and maintenance of the ground water containment and treatment system, contaminated ground water currently being captured and treated would discharge untreated to the Creek.

Contaminant	Level (μg/L)	Federal Ambient Water Quality Criteria for the Consumption of Fish and Drinking Water (μg/L)
acetone	67	*
benzene	7.6	2.2
chlorobenzene	50	680
chloroform	2.9	5.7
1,1-dichloroethane	3,000	*
1,2-dichloroethane	37	0.38
1,1-dichloroethene	260	*
trans-1,2-dichloroethene	55	0.057
cis-1,2-dichloroethene	3,800	*
ethylbenzene	9.5	3,100
methylene chloride	110	4.6
4-methyl-2-pentanone	5.6	*
1,1,2,2-tetrachloroethane	7.4	0.17
tetrachloroethene	65	0.69
toluene	210	6,800
1,1,1-trichloroethane	1,900	200 (Maryland State Water Quality Standard)

Contaminant	Level (μg/L)	Federal Ambient Water Quality Criteria for the Consumption of Fish and Drinking Water (μg/L)
1,1,2-trichloroethane	1.3	0.59
trichloroethene	160	2.5
vinyl chloride	1,100	2.0

* A standard for this contaminant has not been defined in The FAWQC.